

3. The spectacle lens supply method according to
5 Claim 1, wherein the optical performance consists of at
least one of astigmatism, curvature of field, and distortion.

4. The spectacle lens supply method according to Claim 1, comprising the steps of:

10 selecting the left and right lenses from a lens design
table prepared on the basis of prescription values when the
lens design program approximates the optical performance of
the left and right eyes to each other;

comparing the convex surface base curve difference
15 between the selected left and right lenses; and

when this base curve difference is over a predetermined standard, performing lens redesign in which the convex surface curve of one lens is made to have an aspherical shape similar to that of the convex surface curve of the other lens so that the astigmatism is substantially the same.

5. The spectacle lens supply method according to Claim 2, wherein the optical lens design is such that the difference in convex surface base curves of the left and right spectacle lenses is no more than 1 D.

15 in which the order-side computer and the manufacturer-side computer perform computations according to specific input operations and perform the processing required for the taking and/or placing of orders for spectacle lenses while exchanging information with each other,

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values, layout information, and processing instructions
 information, when this data is transmitted from the order-
 side computer to the manufacturer-side computer, and making
 the optical performance of the new lenses produced with this
 5 new design data approximate the optical performance of the
 old lenses produced with the old design data based on the
 old prescription values of the pre-registered customer
 database.

10 8. A spectacle lens supply system, comprising a
 computer set up on a spectacle lens order side and a
 manufacturer-side computer that is information exchangeably
 connected to this order-side computer and has a customer
 database including spectacle lens prescription data and lens
 15 design data,

in which the order-side computer and the manufacturer-
 side computer perform computations according to specific
 input operations and perform the processing required for the
 taking and placing of orders for spectacle lenses while
 20 exchanging information with each other,

wherein, when customer spectacle lens processing
 condition data required for processing, such as spectacle
 lens information, spectacle frame information, prescription
 values, layout information, and processing instructions
 25 information, is transmitted from the order-side computer to
 the manufacturer-side computer, the manufacturer-side

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    a step of checking whether there is any old
prescription data for that customer;

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5 a step of selecting or producing lens design data
matching the new prescription values as lens design data for
the new prescription values if no old data for that customer
exists in the manufacturer-side computer, and setting this
data as the design data for producing the new lenses;

10 an optical performance comparison step in which, if
there is old prescription data for the customer, the new
lens design data for the new prescription values is selected
or produced, and the optical performance of the new lenses
designed on the basis of the newly selected or produced new
15 design data is compared to the optical performance of the
old lenses designed with the old design data matching the
old prescription values; and

a step in which, when the results of comparing the optical performance as above indicate that the optical performance difference is within a range such that the customer will experience substantially no discomfort originating in an optical performance difference when changing from old to new lenses, the selected or produced new design data is set as the design data for producing the new lenses, and when said difference goes outside a range in which the customer will experience substantially no discomfort originating in an optical performance difference

10. The spectacle lens supply system according to Claim 7 or 8, wherein, when there is old prescription data for the customer, a step is provided for comparing the difference between the old and new prescription values, and if this difference is not over 0.5 D as the diopter difference, the new lens design data for the new prescription values is selected or produced without performing the optical performance comparison step, and this data is set as the design data for producing the new lenses.

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5 13. The spectacle lens supply system according to Claim 7 or 8, wherein the curvature of at least one of the first refractive surfaces of the left and right spectacle lenses is selected such that this curved surface will be aspherical.

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wherein, if there is more than a specific amount of difference in the prescription including diopter between the left and right eyes:

when the refractive surfaces in front of the left and
20 right spectacle lenses are termed the first refractive
surfaces and the refractive surfaces on the eye side are
termed the second refractive surfaces, in designing the
curvature of the curved surfaces of the first and second
refractive surfaces of the left and right spectacle lenses,
25 the curvature of the first and second refractive surfaces of
at least one of the left and right spectacle lenses is
selected so that the left and right spectacle lenses satisfy

15. A method for manufacturing a spectacle lens, involving the design and manufacture of left and right spectacle lenses that make up a pair of spectacles in which the prescription including diopter is different for the left and right eyes,

when the refractive surfaces in front of the left and

surfaces and the refractive surfaces on the eye side are termed the second refractive surfaces, in designing the curvature of the curved surfaces of the first and second refractive surfaces of the left and right spectacle lenses, the curvature of the first and second refractive surfaces of at least one of the left and right spectacle lenses is selected so that the left and right spectacle lenses satisfy their respective prescription conditions including the diopter, so that the optical performance of each lens falls within an acceptable range, and so that the difference in the curvature of the first refractive surfaces between the

16. The method for manufacturing a spectacle lens according to Claim 14 or 15, wherein the difference in the diopter between the left and right eyes is 0.5 D or greater when the diopter prescription out of said prescription including the diopter includes a positive diopter, the difference in the diopter between the left and right eyes is 1 D or greater when the diopter prescription includes a negative diopter, and the difference in the curvature of the first refractive surfaces of the left and right spectacle lenses is no more than 1 D.

15 17. The method for manufacturing a spectacle lens according to Claim 15, wherein the optical performance consists of at least one of astigmatism, curvature of field, and distortion.

20 18. The method for manufacturing a spectacle lens according to Claim 15, wherein the curvature of one or both of the first refractive surfaces of the left and right spectacle lenses is selected such that this curved surface will be aspherical.